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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/701,122	11/20/2000	Teuvo Olavi Venalainen	991.1145	5980
21831	7590 04/24/2003			
STEINBERG & RASKIN, P.C.			· EXAMINER	
1140 AVENT NEW YORK	JE OF THE AMERICA , NY 10036-5803	S, 15th FLOOR	REIS, TRAVIS M	
		•	ART UNIT	PAPER NUMBER
			2859	
			DATE MAILED: 04/24/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		119				
,	Application No.	Applicant(s)				
Office Action Summary	09/701,122	VENALAINEN, TEUVO OLAVI				
Office Action Summary	Examiner	Art Unit				
The MAN INC DATE of this communication and	Travis M Reis	2859				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status 1) Posponsive to communication(s) filed on 12/2	//00 P 0/44/00					
1)⊠ Responsive to communication(s) filed on <u>12/2</u> 2a)☐ This action is FINAL . 2b)⊠ Thi	is action is non-final.					
3)☐ Since this application is in condition for allowa		prosecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) 1 and 3-18 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3-18</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:	, , , , , , , , , , , , , , , , , , , ,					
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) al Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, & 3-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ham (U.S. Patent 5343628) in view of Chisum (U.S. Patent 5341575), Venalainen (U.S. Patent 5634368) & Wiedmann et al. (U.S. Patent 5848477).

With reference to claims 1, 3-6, 8, 9, 11-16, & 18, Ham discloses a measurement apparatus and method for vehicle body alignment work comprising a measurement unit (20) of which measurement apparatus (60) can be moved in a vertical guide (58), and which measurement unit is provided with a movable measurement arm (24), wherein the measurement arm comprises an articulation, the articulation at the end of the measurement arm comprises a sleeve part (92), a backing body (32) being pivotable, via pivot (34) with respect to the sleeve part to alternative angular positions, and that the arm part associated with the backing body (48) can be turned in a horizontal plane with respect to the measurement arm (40); to which a first arm part (90) is connected such that the first arm part is pivoted on support of the articulation with respect to the measurement arm, and that to the first arm part is connected a second arm part (100) to which second arm part; the first arm part further comprises end threads at its end, onto which threads a nut (102) is mounted, so that by means of a tension sleeve (95) situated between the nut (59) and the second arm part can be locked to different positions with respect to the first arm part, the tension sleeve being split in a longitudinal direction, thereby serving as a tension

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washer when the nut tightens it against the arm part, the thread being a taper thread; a measurement head (106), with a groove (126) on a surface of said measurement head, is connected through an end piece (104) having a measurement through hole formed therein for receiving said measurement head therein, said end piece comprising a stub projecting axially & perpendicularly out from said second end of said second arm part, a second structure (2) formed by the first and second arm parts which can be extended in the direction of a longitudinal axis of the first arm part such that the second arm part can be displaced with respect to the first arm part to different length positions; wherein the second arm part comprises a through hole formed at an end thereof through which the measurement head is passed (Figures 1-3 & 5).

Ham does not disclose an alignment table to whose fastenings the vehicle is attached for the time of the alignment work & the vertical guide can further be moved in a longitudinal guide.

Chisum discloses an apparatus to gather, display, and print vehicle chassis measurement data for accurate repair of collision damaged vehicles with an alignment table (22) with fasteners (38, 40) with vertical guide being moved in a longitudinal guide (24) (Figure 3). Therefore, it would have been obvious to one with ordinary skill in the art at the time of the invention was made to add the alignment table and longitudinal guide disclosed by Chisum to the measurement unit disclosed by Ham in order that the measurement heads can reach a wider range of vehicle data points.

Ham & Chisum do not disclose the second arm part can turn on its longitudinal axis.

Venalainen discloses a device and method for alignment of an automobile body with an arm (17) capable of rotating around (L2) its longitudinal axis (L1) due to the rounded arm (Figure 4A), granting the arm an ability to set into a desired angle (col. 5 lines 39-41).

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Therefore, it would have been obvious to one with ordinary skill in the art at the time of the invention was made to shape the arms disclosed by Ham in a rounded manner as taught by Venalainen in order to provide the measurement head the ability of being set into any desired angle.

Ham, Chisum, and Venalainen do not disclose any arm part or the measurement head being connected to either the articulation or other arm part via connection assemblies comprising a plurality of spaced holes, each of the holes corresponding to a selected angular or rotary position and ball and spring means for receipt within said a selected one of said plurality of holes for locking said arms in selected angular and rotary positions and locked in said positions.

Wiedmann et al. disclose a coordinate measuring apparatus (1) having a spatially adjusted probe pin (19) using a ball (31) and spring (30) assembly in a plurality of spaced holes (22) to allow the pin to be adjustable into a plurality of angular and rotary positions (Figure 5). Therefore, it would have been obvious to one with ordinary skill in the art at the time of the invention was made to add the ball and spring assembly and plurality of spaced holes to the connections of the arm parts disclosed by Ham, Chisum, and Venalainen in order that the arm parts may be secured when placed in a suitable position.

With reference to claims 7 & 17, Ham, Chisum, Venalainen, & Wiedmann et al. do not disclose the second arm part end sleeve is made of plastic, or said sleeve is attached by means of a cotter to a metal portion of the second arm part.

With regards to the plastic end sleeve: the particular type of material used to make the end sleeve, absent any criticality, is only considered to be the use of a "preferred" or "optimum" material out of a plurality of well known materials that a person having ordinary skill in the art at the time the invention was made would have find obvious to provide using

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routine experimentation based, among other things, on the intended use of Applicant's apparatus, i.e., suitability for the intended use of Applicant's apparatus, and since the courts have stated that a selection of a material on the basis of suitability for intended use of an apparatus would be entirely obvious. See <u>In re Leshin</u>, 125 USPQ 416 (CCPA 1960).

With regards to the cotter: the attachment means claimed by Applicant and the attachment means (i.e. a nut 102) used by Ham & Chisum, Venalainen, & Wiedmann et al. are well known alternate types of attachment means which will perform the same function, if one is replaced with the other, of connecting the two arm parts in a bearing arrangement. Therefore, it would have been obvious to one with ordinary skill in the art at the time of the invention was made to replace the nut disclosed by Ham & Chisum, Venalainen, & Wiedmann et al. with a cotter since they are alternative attachment means.

With reference to claim 10, Ham & Chisum, Venalainen, & Wiedmann et al. disclose the locking positions of each arm part.

Ham & Chisum, Venalainen, & Wiedmann et al. do not disclose the step of the measurement head connected to the measurement arm is read and fed into the memory of a computer and that, based on said data fed the result of measurement is at least one of being directly indicated on a display of a computer or said measurement is printed as a measurement record.

Chisum discloses the step of reading and feeding and/or transmitting the vertical, horizontal, and longitudinal coordinate information of the arm into the memory of a computer for displaying and/or printing the aforesaid vertical, horizontal, and longitudinal coordinates, and/or other measurement/alignment positional data of the arm (col. 2 lines 65-68 through col. 3 lines 1-4). Therefore, it would have been obvious to one with ordinary skill in the art at the time of the invention was made to add the steps of obtaining

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coordinate data and displaying the result taught by Chisum to the steps taught by Ham &

Chisum, Venalainen, & Wiedmann et al. in order that a user would be able to see the data

of the condition of the vehicle.

Response to Arguments

3. Applicant's arguments with respect to claims 1, 3-8 & 11-18 have been considered

but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the 4.

examiner should be directed to Travis Reis whose telephone number is (703) 305-4771.

The examiner can normally be reached on 8--5 M--F. If attempts to reach the examiner by

telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached

on (703) 308-3875. The fax phone numbers for the organization where this application or

proceeding is assigned are (703) 746-8160 for regular communications and (703) 308-

7722 for After Final communications. Any inquiry of a general nature or relating to the

status of this application or proceeding should be directed to the receptionist whose

telephone number is (703) 308-0956.

Travis M Reis Examiner

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Diego Gutierrez

Supervisory Patent Examiner

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Technology Center 2800

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April 21, 2003